What is CAPT?

CAPT = <u>CCPP-ARM</u> <u>Parameterization</u> <u>Testbed</u>

CAPT combines the strengths of two DOE programs with complementary missions:

CCPP (Climate Change Prediction Program) Focus on GCM performance

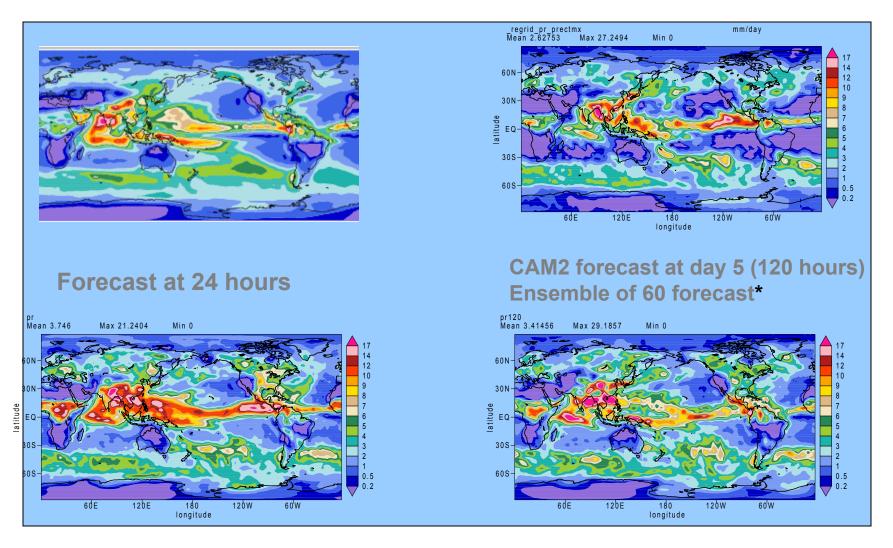
ARM (Atmospheric Radiation Measurement) Focus of radiation and cloud processes and their parameterization in GCMs

CAPT provides a flexible user environment for running GCMs in NWP 'forecast' mode:

- > global initialization data sets
- > processed global and local observations
- > high-frequency GCM forecast output
- > diagnostic analysis and visualization tools
- > experienced scientific staff to collaborate with parameterization developers

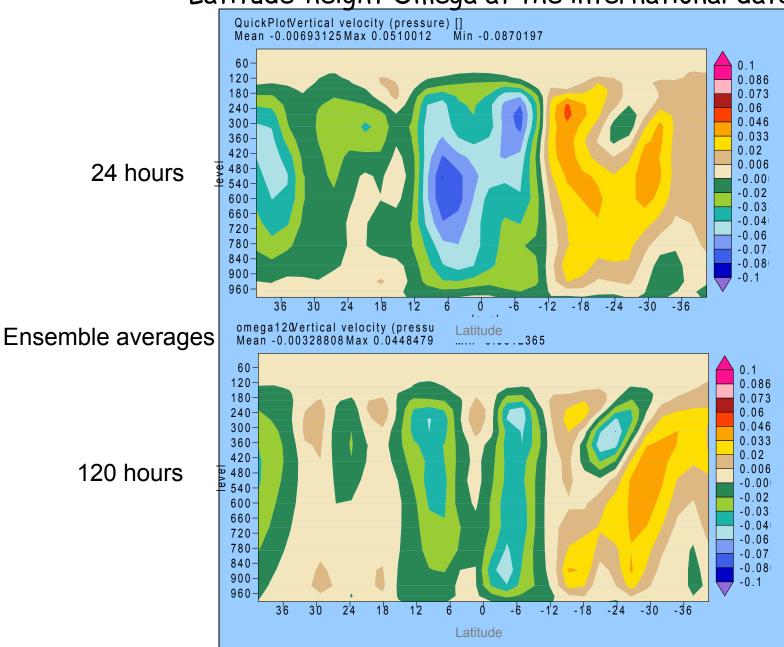
CAM2 JJA climatology

GPCP June-July 1997 precipitation

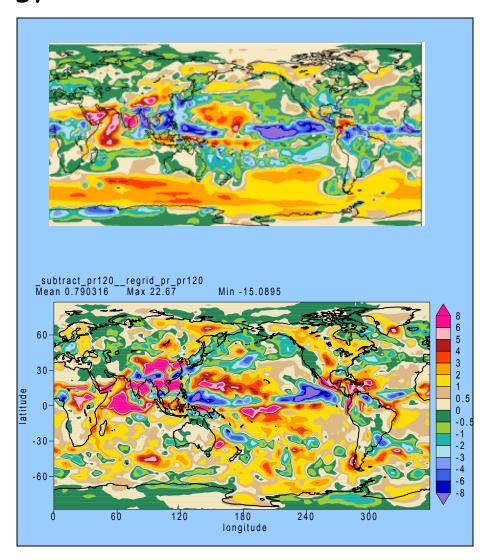


^{*}There is some indication that the systematic errors in the CAM2 climatology can be detected in day 5 or earlier forecasts

Latitude-height Omega at the international dateline



Precipitations errors from the 5-day forecast ensemble are somewhat similar to the errors in climatology



Day 5 ensemble forecast with SST's superimposed

